

We claim:

1. An archery bow breech structure comprising body means having an elongated outer surface portion, a longitudinal pull axis, a front portion and a rear portion, bow string keeper means mounted on said front portion and movable between a cocked position and a firing position, trigger means slidably mounted on said outer surface portion of said body means and having a finger contact surface, cooperating first shoulder means on said trigger means and second shoulder means on said keeper means, said trigger means being generally axially movable relative to and independently of said body means to a first axial position wherein said keeper means can be moved to its cocked position, and further axially movable to a second axial position to engage said first and second shoulder means and release said keeper means to its firing position, and haft means mounted on said body means for hand pulling said body means along with a bowstring held by said keeper means, wherein said haft means is attached to said body means by spring means selected to impart a desired lost motion action to said haft means at a preselected bowstring draw force whereby the relative axial positions of said bowstring, body means, keeper means and trigger means remain substantially fixed during said lost motion action until said trigger means is physically moved rearwardly on said body means by the archer to said second axial position.

2. The breech structure of claim 1 wherein said trigger means is cylindrical in shape and is readily axially slidably mounted on said body means between said cocked and firing positions, said rear portion of said body means is provided with a first axial bore, said haft means has a shaft portion slidably mounted in said first axial bore, said spring means

comprises a compression spring retained in said first axial bore between third shoulder means on said shaft portion and fourth shoulder means on said body means wherein said spring urges said haft means toward its real time (not lost motion) draw position on said body means.

3. The breech structure of claim 2 wherein said front portion of said body means is provided with a second axial bore, a shaft portion of said keeper means is slidably mounted in said second axial bore, said second shoulder means on said keeper means being provided on said shaft portion and extending laterally beyond said outer surface portion of said body means, compression spring means in said second axial bore and urging said shaft portion and second shoulder means toward the cocked position of said keeper means.

4. The breech structure of claim 3 wherein a keeper notch on said keeper means, said first axial bore and said second axial bore all lie on substantially the same longitudinal axis.

5. The breech structure of claim 2 wherein said fourth shoulder means is provided by bushing means threadedly mounted in the rear opening of said first axial bore and adjustable axially thru said opening to vary said preselected bowstring draw force, and wherein said shaft portion of said haft means is slidably mounted thru an opening formed generally axially thru said bushing means.